RadioShack®

15-259
User's Guide

Antenna-Mounted
High-Gain Signal Amplifier

Thank you for purchasing your Antenna-Mounted High-Gain Signal Amplifier from ***RadioShack****. Please read this user's guide before installing, setting up, and using your new signal amplifier.*

WARNING: To reduce the risk of fire or shock hazard, do not expose this product to rain or moisture.

This symbol is intended to alert you to the presence of uninsulated dangerous voltage within the product's enclosure that might be of sufficient magnitude to constitute a risk of electric shock. Do not open the product's case.	**CAUTION** **RISK OF ELECTRIC SHOCK DO NOT OPEN** CAUTION: To reduce the risk of electric shock, do not remove cover or back. No user-serviceable parts inside. Refer servicing to qualified personnel.	This symbol is intended to inform you that important operating and maintenance instructions are included in the literature accompanying this product.

Package contents

- Outdoor Amplifier
- Indoor Amplifier
- AC Adapter
- 75-ohm Terminator
- User's Guide
- Quick Start
- U-Bolt with Nut (2) and Washer (2)
- 6-Foot Coaxial Cable with Weather Boots
- 6-Foot Coaxial Cable without Weather Boots
- 300-75-ohm Matching Transformer

Features

- Amplify HDTV, VHF, UHF, and FM signals
- Adjust gain control
- Filter FM interference
- Outputs to TVs and receiver or other device at the same time

① Mount the outdoor amplifier

Attach the Outdoor Amplifier to the antenna mast about 12 inches below the antenna (not included) with the U-Bolt, 2 nuts, and 2 washers (all included).

Note: *Mount the outdoor amplifier with connections facing down to avoid water entering the amplifier.*

② Connect the outdoor amplifier to the antenna

1. Use the Coaxial Cable with Weather Boots to connect the Outdoor Amplifier's **TO ANTENNA** terminal and the antenna. If your antenna does not have an RF jack, use the 300-75-ohm Matching Transformer between the antenna and the Coaxial Cable.
2. Slide the weather boots snugly over the connectors.
3. Open the cover to set **FM TRAP**. Set to **ON** to trap FM signals interfering with your TV signal, set to **OFF** if connecting to an FM radio.

③ Connect the outdoor amplifier to the indoor amplifier

1. Connect your existing coaxial cable (up to 150 ft (46 m)) to the Outdoor Amplifier's **TO POWER SUPPLY** terminal.
2. Connect the other end of your existing coaxial cable to the Indoor Amplifier's **INPUT** terminal. Use the supplied 6-Foot Coaxial Cable without Weather Boots, if needed.

Note: *Coaxial cables are available at your local* ***RadioShack*** *store or online at www.radioshack.com.*

④ Connect the indoor amplifier to TVs or receivers

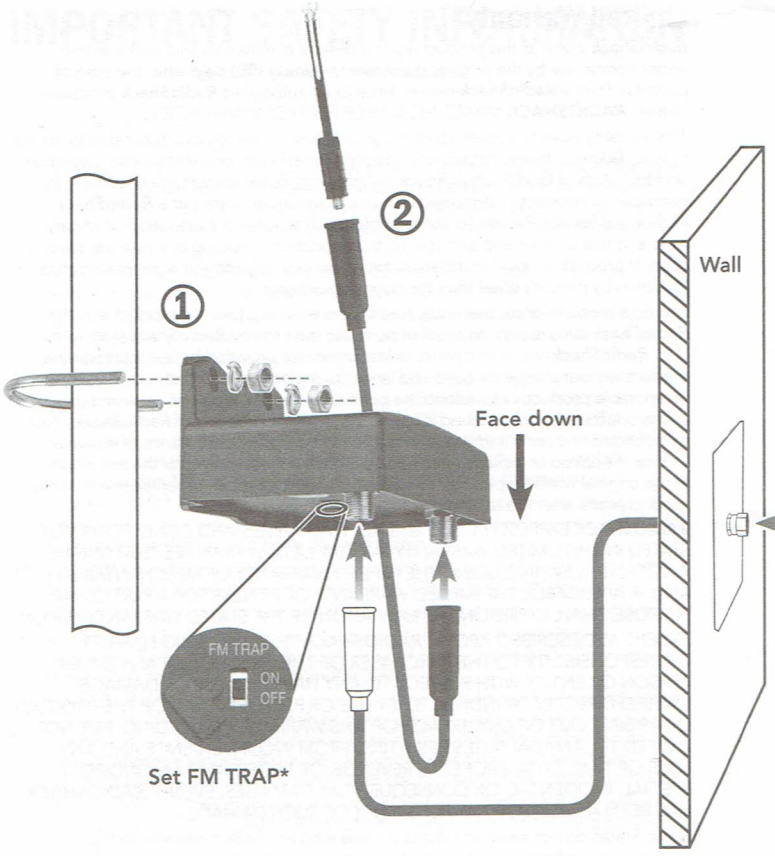
1. Connect the Indoor Amplifier's **OUTPUT 1** terminal to your TV or receiver.
2. Connect **OUTPUT 2** to another TV or receiver. If not using **OUTPUT 2**, cover it with the supplied 75-ohm Terminator.

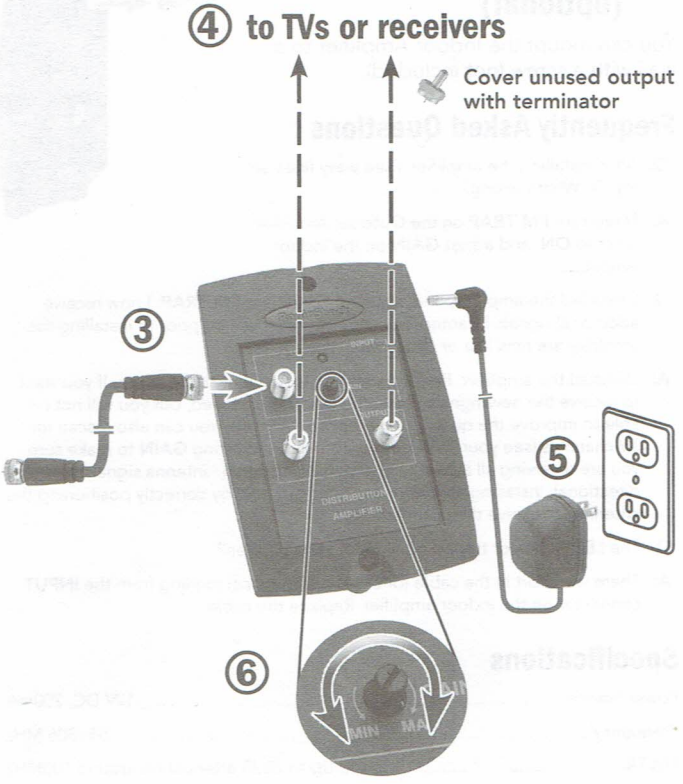
⑤ Connect the AC adapter

Connect the AC adapter to the Indoor Amplifier. The LED lights.

⑥ Adjust the indoor amplifier

Adjust **GAIN** towards **MIN** or **MAX** for best reception. The optimum setting depends on the location, cable lengths, and number of connected devices.

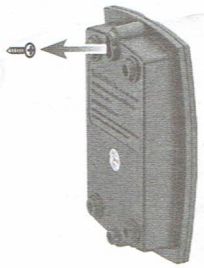




* *Be sure to set* **FM TRAP** *when you connect the Outdoor Amplifier to the antenna. Set to* **ON** *to prevent FM signal interference. Set to* **OFF** *if connecting to an FM radio.*

Note: *The power adapter must supply 12V DC and deliver at least 200mA. Its center tip must be set to positive and its plug must fit the DC 12V jack. Using an adapter that does not meet these specifications could damage the signal amplifier or adapter.*

⑦ Mount the indoor amplifier (optional)



You can mount the Indoor Amplifier to a wall with a screw (not included).

Frequently Asked Questions

Q: After installing the amplifier, I see wavy lines on my TV. What's wrong?

A: Make sure **FM TRAP** on the Outdoor Amplifier is set to **ON**, and adjust **GAIN** on the Indoor Amplifier.

Q: I installed the amplifier, and adjusted **GAIN** and **FM TRAP**. I now receive additional signals I wanted, but the signals I received prior to installing the amplifier are now lost or degraded. What do I do?

A: Uninstall the amplifier. Performance can vary greatly by location. If you want to receive the new signals, leave the amplifier installed, but you will not be able to improve the quality of the previous signals. You can also rescan for TV channels (see your TV's user's guide) after adjusting **GAIN** to make sure you are receiving all available channels. In addition, antenna signals are directional; installing an antenna rotator can help by correctly positioning the antenna to receive the optimal signal.

Q: The LED indicator turned off. Why did this happen?

A: There is a short in the cable (or other connections) running from the **INPUT** connector on the indoor amplifier. Replace the cable.

Specifications

Power Source	12V DC, 200mA
Frequency	54~806 MHz
FM TRAP	Up to 20dB attenuation around 100MHz
Gain 25 dB	(VHF or UHF)
Gain Control	Up to 10dB

Specifications are subject to change and improvement without notice. Actual product may vary from the images found in this document.

Limited Warranty

RadioShack warrants this product against defects in materials and workmanship under normal use by the original purchaser for **ninety (90) days** after the date of purchase from a ***RadioShack***-owned store or an authorized ***RadioShack*** franchisee or dealer. ***RADIOSHACK*** MAKES NO OTHER EXPRESS WARRANTIES.

This warranty does not cover: (a) damage or failure caused by or attributable to abuse, misuse, failure to follow instructions, improper installation or maintenance, alteration, accident, Acts of God (such as floods or lightning), or excess voltage or current; (b) improper or incorrectly performed repairs by persons who are not a ***RadioShack*** Authorized Service Facility; (c) consumables such as fuses or batteries; (d) ordinary wear and tear or cosmetic damage; (e) transportation, shipping or insurance costs; (f) costs of product removal, installation, set-up service, adjustment or reinstallation; and (g) claims by persons other than the original purchaser.

Should a problem occur that is covered by this warranty, take the product and the ***RadioShack*** sales receipt as proof of purchase date to any ***RadioShack*** store in the U.S. ***RadioShack*** will, at its option, unless otherwise provided by law: (a) repair the product without charge for parts and labor; (b) replace the product with the same or a comparable product; or (c) refund the purchase price. All replaced parts and products, and products on which a refund is made, become the property of ***RadioShack***. New or reconditioned parts and products may be used in the performance of warranty service. Repaired or replaced parts and products are warranted for the remainder of the original warranty period. You will be charged for repair or replacement of the product made after the expiration of the warranty period.

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www.RadioShack.com

IMPORTANT SAFETY INFORMATION

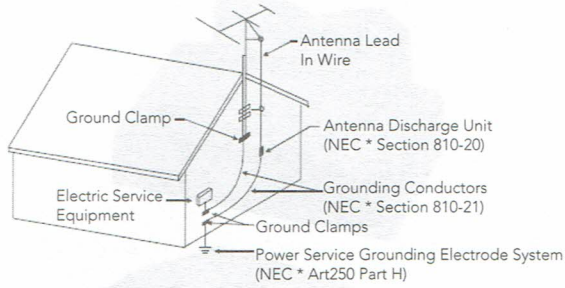
1. Read Instructions before operating the product.
2. Retain Instructions for future reference.
3. Heed all warnings.
4. Follow all instructions.
5. VENTILATION — Do not block any ventilation openings. For example, the appliance should not be situated on a bed, sofa, rug, or similar surface that may block the ventilation openings; or, placed in a built-in installation, such as a bookcase or cabinet that may impede the flow of air through the ventilation openings.
7. HEAT — Do not install near any heat sources such as radiators, heat registers, stoves, or other appliances that produce heat.
8. POWER SOURCES — Use only the type of power source indicated on the label. If you are not sure of the type of power supply to your home, consult your product dealer or local power company.
9. GROUNDING OR POLARIZATION — This product is equipped with a polarized alternating-current line plug (a plug having one blade wider than the other). This plug will fit into the power outlet only one way. This is a safety feature. If you are unable to insert the plug fully into the outlet, try reversing the plug. If you still are unable to insert the plug into the outlet, contact your electrician to replace your obsolete outlet. Do not defeat the safety purpose of the polarized plug.
10. POWER-CORD PROTECTION — Protect the power cord from being walked on or pinched particularly at plugs, convenience receptacles, and the point where they exit from the apparatus.
11. CLEANING — Unplug this product from the wall outlet before cleaning. Do not liquid cleaners or aerosol cleaners. Clean only with dry cloth.
12. ATTACHMENTS — Only use attachments specified by the manufacturer.
13. ACCESSORIES — Use only with the cart, stand, tripod, bracket, or table specified by the manufacturer or sold with the product. Only use accessories specified by the manufacturer.
14. POWER LINES — An outside antenna system should not be located in the vicinity of overhead power lines or other electric light or power circuits, or where it can fall into such power lines or circuits. When installing an outside antenna system, extreme care should be taken to keep from touching such power lines or circuits as contact with them might be fatal.
15. LIGHTNING — Unplug it from the wall outlet and disconnect the antenna or cable system during lightning storms or when unused for long periods of time.
16. OBJECT AND LIQUID ENTRY — Never push objects or any kind into this product through openings as they may touch dangerous voltage points or

shortout parts that could result in a fire or electric shock. Never spill liquid of any kind on the product.

17. CARTS AND STANDS — Exercise caution when moving any product and cart combination. Quick stops, excessive force, and uneven surfaces may cause the appliance and cart combination to overturn.
18. MOUNTING — The appliance should be mounted only as recommended by the manufacturer.
19. DAMAGE REQUIRING SERVICE — The appliance should be serviced by qualified service personnel when:
    A. The power-supply cord or plug is damaged.
    B. Objects have fallen onto, or liquid has been spilled into the product.
    C. The appliance has been exposed to rain.
    D. The appliance has been dropped; or the enclosure damaged.
    E. The appliance does not appear to operate normally or exhibits a marked change in performance.
    F. The product does not operate normally by following the operating instructions. Adjust only those controls that are covered by the operating instructions as an improper adjustment of other controls may result in damage and will often require extensive work by a qualified technician to restore the product to its normal operation.
20. SERVICING — Do not attempt to service this product yourself as opening or removing covers may expose you to dangerous voltage or other hazards. Refer all servicing to qualified service personnel. .
21. OVERLOADING — Do not overload wall outlets and extension cords as this can result in a risk of fire or electric shock.
22. REPLACEMENT PARTS — When replacement parts are required, be sure the service technician has used replacement parts specified by the manufacturer or have the same characteristics as the original part. Unauthorized substitutions may result in fire, electric shock or other hazards.
23. SAFETY CHECK — Upon completion of any service or repairs to this appliance, ask the service technician to perform safety checks to determine that the appliance is in proper operating condition.
24. OUTDOOR ANTENNA GROUNDING — If an outside antenna or cable system is connected to the appliance, be sure the antenna or cable system is grounded so as to provide some protection against voltage surges and built-up static charges. Section 810 of the National Electrical Code, ANSI/NFPA No. 70-1984, provides information with respect to proper grounding of the mast and supporting structure grounding of the lead-in wire to an antenna discharge unit, size of grounding conductors, location of antenna-discharge unit, connection to grounding electrodes and requirements for the grounding electrode. See the figure below.

EXAMPLE OF ANTENNA GROUNDING ACCORDING TO NATIONAL ELECTRICAL CODE INSTRUCTIONS CONTAINED IN ARTICLE 810 - "RADIO AND TELEVISION EQUIPMENT"

a Use No. 10 AWG (5.3 mm^2) copper, No. 8 AWG (8.4 mm^2) aluminum, No.17 AWG (1.0 mm^2) copperclad steel or bronze wire, or larger, as a ground wire.
b Secure antenna lead-in and ground wires to the house with stand-off insulators spaced from 4 - 6 feet (1.22 - 1.83 m) apart.
c Mount the antenna discharge unit as close as possible to where the lead-in enters the house.
d Use a jumper wire not smaller than No. 6 AWG (13.3 mm^2) copper, or the equivalent, when a separate antenna-grounding electrode is used. See NEC Section 810 - 21 (j).



Protect the environment by recycling used electronics. Go to E-CyclingCentral.com to find an electronic recycling center near you.

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Printed in China 06A09
AO0362ABA1 15-259